Cc: Towle, Michael[Towle.Michael@epa.gov]; Guy, Kerry[Guy.Kerry@epa.gov]
To: Matt Francis[m.francis@erllc.com]; Carla Copeland[c.copeland@erllc.com]; a.slayton@erllc.com[a.slayton@erllc.com]
From: Way, Steven
Sent: Fri 8/21/2015 6:54:18 PM
Subject: Fwd: Titration Report
Titration Analysis Report 082015.pdf
ATT00001.htm

Please plan accordingly to use lime as soon as possible as discussed yesterday and have a contingency of sufficient NaOH for a week. Hopefully the Omni recirculating will improve our efficiency w NaOH.

It appears that we need more lime soon.

Please acknowledge.

Steve

Sent from my iPhone

Begin forwarded message:

From: "Neville Kingham" <neville@kinghamcsi.com>
To: "Way, Steven" <way.steven@epa.gov>
Cc: "Powell, Greg" <Powell.Greg@epa.gov>, "'Christner, Jan'" <Jan.Christner@WestonSolutions.com>
Subject: FW: Titration Report

Steve, based upon the enclosed Titration report the following amounts of sodium hydroxide or calcium hydroxide should be used to reach the desired pH level. These calculations are based upon a 500 gallons per minute flow rate;

Sodium hydroxide

- pH 7.5, 1080 gallons of 25% per day
- pH 6, 930 gallons of 25% per day
- pH 5, 790 gallons of 25% per day

Calcium hydroxide

- pH 7.5, 790 lbs per day
- pH 6, 720 lbs per day

- pH 5, 500 lbs per day

Calcium hydroxide can be made into slurry and pumped

Remember this data was formulated from 1 grab sample, monitoring must continue for pH and floc development.

I strongly recommend going with calcium hydroxide,

Thanks,
Neville

Neville,

Please find the titration report attached. It is very informal as we discussed. Please let me know if you would like me to create a more formal format, add additional information or revise information.

Thanks,

Moira Pryhoda
Weston Solutions, Inc.
1435 Garrison St, Ste 100
Lakewood, CO 80215
Ph: 303-729-6112
Cell: 508-904-7579